Index of Authors

ALDERETE, J. F. *See* DAILEY, D. C.

ALFIERI, S. C. *See* GALVAO-QUINTAO, L.

ALLAN, J. C., AVILA, G., GARCIA NOVAL, J., FLISSER, A. and GRAIG, P. S. Immunodiagnosis of taeniasis by coproantigen detection, 473

ALMONTE, R. *See* MITCHELL, G. F.

ANDERSEN, K. I. and VALTONEN, E. T. On the infracommunity structure of adult cestodes in freshwater fishes, 257

ASHFORD, R. W. *See* DIRIE, M. F.

AVILA, G. *See* ALLAN, J. C.

BARRY, J. D. *See* GRAHAM, S. V.

BENNETT, J. L. *See* PAX, R. A.

BIGGS, W. D. *See* LEE, D. L.

BILLINGSLEY, P. F. *See* FELDMANN, A. M.

BLACKWELL, J. M. *See* DAVIES, C. R.

BOLMER, M. *See* PONNUDURAI, T.

BÓZNER, P., DEMEŠ, P. and ŠTEFANOVIČ, J. Proteolytic activity in *Tritrichomonas mobilensis*, 57

BUCHANAN, N. *See* TURNER, C. M. R.

BUNDY, D. A. P. *See* DAS, P. K.

BUNDY, D. A. P. *See* GRENFELL, B. T.

BUNDY, D. A. P. *See* GUYATT, H. L.

BURNS, C. *See* YOUNG, A. S.

BUTCHER, G. A. and CLARK, I. A. The inhibition of *Plasmodium falciparum* growth *in vitro* by sera from mice infected with malaria or treated with TNF, 321

CALICA, E. *See* MITCHELL, G. F.

CARTER, N. S. *See* HAYES, D. J.

CHANG, TE-HUNG. *See* DAILEY, D. C.

CHAPMAN, C. J. *See* STRELKOVA, M. V.

CHAPPELL, L. H. *See* RILEY, E. M.

CHAPPELL, L. H. *See* WASTLING, J. M.

CLARK, I. A. *See* BUTCHER, G. A.

CONSTANT, S. L., MOUNTFORD, A. P. and WILSON, R. A. Phenotypic analysis of the cellular responses in regional lymphoid organs of mice vaccinated against *Schistosoma mansoni*, 15

COOPER, A. M. *See* DAVIES, C. R.

CRAIG, P. S. *See* ALLAN, J. C.

CREWS, A. E. and YOSHINO, T. P. Influence of larval schistosomes on polysaccharide synthesis in albumin glands of *Biomphalaria glabrata*, 351

CUMMINS, J. M. *see* YOUNG, A. S.

DAILEY, D. C., CHANG, TE-HUNG and ALDERETE, J. F. Characterization of *Trichomonas vaginalis* haemolysis, 171

DAS, P. K., MANOHARAN, A., SRIVIDYA, A., GRENFELL, B. T., BUNDY, D. A. P. and VANAMAIL, P. Frequency distribution of *Wuchereria bancrofti* microfilariae in human populations and its relationships with age and sex, 429

DAS, P. K. *See* GRENFELL, B. T.

DAVERN, K. M. *See* MITCHELL, G. F.

DAVIES, C. R., COOPER, A. M., PEACOCK, C., LANE, R. P. and BLACKWELL, J. M. Expression of LPG and GP63 by different developmental stages of *Leishmania major* in the sandfly *Phlebotomus papatasi*, 337

DEMEŠ, P. *See* BÓZNER, P.

DIASANTA, R. *See* MITCHELL, G. F.

DIRIE, M. F., ASHFORD, R. W., MUNGOMBA, L. M., MOLYNEUX, D. H. and GREEN, E. E. Avian trypanosomes in *Simulium* and sparrowhawks (*Accipiter nisus*), 243

DYE, C. Epidemiological significance of vector–parasite interactions, 409

ELISEEV, L. N. *See* STRELKOVA, M. V.

ELLIS, J. and BUMSTEAD, J. *Eimeria* species: studies using rRNA and rDNA probes, 1

ELLIS, J. and REVETS, H. *Eimeria* species of the chicken contain virus-like RNA molecules, 163

ELSE, K. J., WAKELIN, D., WASSOM, D. L. and HAUDA, K. M. The influence of genes mapping within the major histocompatability complex on resistance to *Trichuris muris* infections in mice, 61

ETLINGER, H. *See* RIDLEY, R. G.

EVANS, D. A. *See* STRELKOVA, M. V.

FAIRWEATHER, I. *See* MCKAY, D. M.

FAIRWEATHER, I. *See* SKUCE, P. J.

FAIRWEATHER, I. *See* STITT, A. W.

FELDMANN, A. M., BILLINGSLEY, P. F. and SAVELKOUL, E. Bloodmeal digestion by strains of *Anopheles stephensi* Liston (Diptera: Culcidae) of differing susceptibility to *Plasmodium falciparum*, 193

FLISSER, A. *See* ALLAN, J. C.

FRAME, I. A., ROSS, C. A. and LUCKINS, A. G. Characterization of *Trypanosoma congolense* serodemes in stocks isolated from Chipata District, Zambia, 235

GARCIA NOVAL, J. *See* ALLAN, J. C.

GARCIA, E. G. *See* MITCHELL, G. F.

GEMMELL, M. A., LAWSON, J. R., ROBERTS, M. G. and GRIFFIN, J. F. T. Population dynamics in echinococcosis and cysticercosis: regulation of *Taenia hydatigena* and *T. ovis* in lambs through passively transferred immunity, 145

GERRARD, D. *See* WASTLING, J. M.

GRAHAM, S. V., MATTHEWS, K. R., SHIELS, P. G. and BARRY, J. D. Distinct, developmental stage-specific activation mechanisms of trypanosome VSG genes, 361

GRAINGER, M. *See* HARNETT, W.

GREEN, E. E. *See* DIRIE, M. F.

GREEN, T. J. *See* STUART, M. K.

GRENFELL, B. T., DAS, P. K., RAJAGOPALAN, P. K. and BUNDY, D. A. P. Frequency distribution of lymphatic filariasis microfilariae in human populations: population processes and statistical estimation, 417

GRENFELL, B. T. *See* DAS, P. K.

GRENFELL, B. T. *See* GUYATT, H. L.

GRIFFIN, J. F. T. *See* GEMMELL, M. A.

GUYATT, H. L., BUNDY, D. A. P., MEDLEY, G. F. and GRENFELL, B. T. The relationship between the frequency distribution of *Ascaris lumbricoides* and the prevalence and intensity of infection in human communities, 139

HALTON, D. W. *See* MCKAY, D. M.

HALTON, D. W. *See* SKUCE, P. J.

HARNETT, W., WORMS, M. J., GRAINGER, M., PYKE, S. D. M. and PARKHOUSE R. M. E. Association between circulating antigen and parasite load in a model filarial system, *Acanthocheilonema viteae* in jirds, 453

HAUDA, K. M. *See* ELSE, K. J.

HAYES, D. J. and CARTER, N. S. An investigation of fructose utilization in *Acanthocheilonema viteae*, 445

HAYES, D. J. and SELWOOD, D. L. Glucose transport in *Acanthocheilonema viteae*, 249
HIDE, G. *See* TURNER, C. M. R.
HIORNS, R. W. *See* KEYMER, A. E.
HOBBS, R. P., LYMBERY, A. J. and THOMPSON, R. C. A. Rostellar hook morphology of *Echinococcus granulosus* (Batsch, 1786) from natural and experimental Australian hosts, and its implications for strain recognition, 273
HOBBS, R. P. *See* LYMBERY, A. J.
HOLDEN-DYE, L. and WALKER, R. J. Avermectin and avermectin derivatives are antagonists at the 4-aminobutyric acid (GABA) receptor on the somatic muscle cells of *Ascaris*; is this the site of anthelmintic action?, 265

INGRAM, G. A. *See* STILES, J. K.

JOHNSTON, C. F. *See* MCKAY, D. M.
JOHNSTON, C. F. *See* SKUCE, P. J.

KARIUKI, D. P. *See* YOUNG, A. S.
KELLINA, O. I. *See* STRELKOVA, M. V.
KEYMER, A. E., TARLTON, A. B., HIORNS, R. W., LAWRENCE, C. E. and PRITCHARD, D. I. Immunogenetic correlates of susceptibility to infection with *Heligmosomoides polygyrus* in outbred mice, 69

LAMMAS, D. A., MITCHELL, L. A. and WAKELIN, D. Genetic influences upon eosinophilia and resistance in mice infected with *Mesocestoides corti*, 291
LAMSAM, S. and MCMANUS, D. P. Molecular characterization of the surface and cyst fluid components of *Taenia crassiceps*, 115
LANE, R. P. *See* DAVIES, C. R.
LAWRENCE, C. E. *See* KEYMER, A. E.
LAWSON, J. R. *See* GEMMELL, M. A.
LE BLANCQ, S. M. *See* STRELKOVA, M. V.
LEE, D. L. and BIGGS, W. D. Two- and three-dimensional locomotion of the nematode *Nippostrongylus brasiliensis*, 301
LENSEN, A. H. W. *See* PONNUDURAI, T.
LUCKINS, A. G. *See* FRAME, I. A.
LYMBERY, A. J., THOMPSON, R. C. A. and HOBBS, R. P. Genetic diversity and genetic differentiation in *Echinococcus granulosus* (Batsch, 1786) from domestic and sylvatic hosts on the mainland of Australia, 283
LYMBERY, A. J. *See* HOBBS, R. P.

MANOHARAN, A. *See* DAS, P. K.
MARITIM, A. C. *See* YOUNG, A. S.
MATTHEWS, K. R. *See* GRAHAM, S. V.
MAUDLIN, I. *See* STILES, J. K.
MEDLEY, G. F. *See* GUYATT, H. L.
MITCHELL, G. F., GARCIA, E. G., WOOD, S. M., DIASANTA, R., ALMONTE, R., CALICA, E., DAVERN, K. M. and TIU, W. U. Studies on the sex ratio of worms in schistosome infections, 27
MITCHELL, L. A. *See* LAMMAS, D. A.
MOHAMED, H. A. and MOLYNEUX, D. H. Developmental stages of *Cyclospora talpae* in the liver and bile duct of the mole (*Talpa europaea*), 345
MOLONEY, N. A. *See* RUPPEL, A.
MOLYNEUX, D. H. *See* DIRIE, M. F.
MOLYNEUX, D. H. *See* MOHAMED, H. A.
MOLYNEUX, D. H. *See* STILES, J. K.
MONS, B. *See* PONNUDURAI, T.
MOUNTFORD, A. P. *See* CONSTANT, S. L.
MUNGOMBA, L. M. *See* DIRIE, M. F.
MUNRO, M. A., REID, A. and WHITFIELD, P. J. Genomic divergence in the ecologically differentiated English freshwater and marine strains of *Pomphorynchus laevis* (Acanthocephala: Palaeacanthocephala): a preliminary investigation, 451
MURRAY, D. S. and WHARTON, D. A. Capture and penetration processes of the free-living juveniles of *Trichostrongylus columbriformis* (Nematoda) by the nematophagous fungus, *Arthrobotrys oligospora*, 93
MURRAY, D. S. *See* WHARTON, D. A.
MUTUGI, J. J. *See* YOUNG, A. S.
MCCARTHY, A. M. Speciation of echinostomes: evidence for the existence of two sympatric sibling species in the complex *Echinoparyphium recurvatum* (von Linstow, 1873) (Digenea: Echinostomatidae), 35
MCCARTHY, A. M. The influence of second intermediate host dispersion pattern upon the transmission of cercariae of *Echinoparyphium recurvatum* (Digenea: Echinostomatidae), 43
MCKAY, D. M., HALTON, D. W., JOHNSTON, C. F., FAIRWEATHER, I. and SHAW, C. *Hymenolepis diminuta*: changes in intestinal morphology and the enterochromaffin cell population associated with infection in male C57 mice, 107
MCLINTOCK, L. M. L., TURNER, C. M. R. and VICKERMAN, K. A comparison of multiplication rates in primary and challenge infections of *Trypanosoma brucei* bloodstream forms, 49
MCMANUS, D. P. *See* LAMSAM, S.

PAPPAS, P. W. and UGLEM, G. L. *Hymenolepis diminuta* (Cestoda) liberates an inhibitor of proteolytic enzymes during *in vitro* incubation, 455
PARKHOUSE, R. M. E. *See* HARNETT, W.
PAX, R. A. and BENNETT, J. L. Studies on intrategumental pH and its regulation in adult male *Schistosoma mansoni*, 219
PEACOCK, C. *See* DAVIES, C. R.
PETERS, W. *See* STRELKOVA, M. V.
PIKE, A. W. *See* SHARP, G. J. E.
PONNUDURAI, T., LENSEN, A. H. W., VAN GEMERT, G. J., BOLMER, M., VAN BELKUM, A., VAN EERD, P. and MONS, B. Large-scale production of *Plasmodium vivax* sporozoites, 317
PRITCHARD, D. I. *See* KEYMER, A. E.
PYKE, S. D. M. *See* HARNETT, W.

RABINOVICH, M. *See* GALVAO-QUINTAO, L.
RAJAGOPALAN, P. K. *See* GRENFELL, B. T.
REID, A. *See* MUNRO, M. A.
REVETS, H. *See* ELLIS, J.
RICHARDS, A. B. *See* YOUNG, A. S.
RIDLEY, R. G., TAKACS, B., ETLINGER, H. and SCAIFE, J. G. A rhoptry antigen of *Plasmodium falciparum* is protective in *Saimiri* monkeys, 187
RILEY, E. M. and CHAPPELL, L. H. Praziquantel treatment of *Biomphalaria glabrata* infected with *Schistosoma mansoni* – influence on snail fecundity, 211
ROBERTS, M. G. *See* GEMMELL, M. A.
ROSS, C. A. *See* FRAME, I. A.
RUPPEL, A., SHI, Y. E. and MOLONEY, N. A. *Schistosoma mansoni* and *S. japonicum*: comparison of levels of ultraviolet irradiation for vaccination of mice with cercariae, 23
RYTER, A. *See* GALVAO-QUINTAO, L.

SAVELKOUL, E. *See* FELDMANN, A. M.
SCAIFE, J. G. *See* RIDLEY, R. G.
SCOTT, M. E. An experimental and theoretical study of the dynamics of a mouse-nematode (*Heligmosomoides polygyrus*) interaction, 75
SECOMBES, C. J. *See* SHARP, G. J. E.
SELWOOD, D. L. *See* HAYES, D. J.
SHARP, G. J. E., SECOMBES, C. J. and PIKE, A. W. The laboratory maintenance of *Diphyllobothrium dendriticum* (Nitzsch, 1824), 153
SHAW, C. *See* MCKAY, D. M.
SHAW, C. *See* SKUCE, P. J.
SHIELS, P. G. *See* GRAHAM, S. V.
SHI, Y. E. *See* RUPPEL, A.
SHURKHAL, A. V. *See* STRELKOVA, M. V.

SKUCE, P. J., JOHNSTON, C. F., FAIRWEATHER, I., HALTON, D. W. and SHAW, C. A confocal scanning laser microscope study of the peptidergic and serotoninergic components of the nervous system in larval *Schistosoma mansoni*, 227

SMITH, E. *See* TURNER, C. M. R.

SMITH, G. The population biology of the free-living phase of *Haemonchus contortus*, 309

SPOONER, P. R. Oxytetracycline inhibition of mitochondrial protein synthesis in bovine lymphocytes infected with *Theileria parva* or stimulated by mitogen, 387

SRIVIDYA, A. *See* DAS, P. K.

STAGG, D. A. *See* YOUNG, A. S.

ŠTEFANOVIČ, J. *See* BÓZNER, P.

STERNBERG, J. *See* TURNER, C. M. R.

STILES, J. K., INGRAM, G. A., WALLBANKS, K. R., MOLYNEUX, D. H., MAUDLIN, I. and WELLBURN, S. Identification of midgut trypanolysin and trypanoagglutinin in *Glossina palpalis* sspp. (Diptera: Glossinidae), 369

STITT, A. W. and FAIRWEATHER, I. Spermatogenesis and the fine structure of the mature spermatozoon of the liver fluke, *Fasciola hepatica* (Trematoda: Digenea), 395

STRELKOVA, M. V., SHURKHAL, A. V., KELLINA, O. I., ELISEEV, L. N., EVANS, D. A., PETERS, W., CHAPMAN, C. J., LE BLANCQ, S. M. and VAN EYS, G. J. J. M. A new species of *Leishmania* isolated from the great gerbil *Rhombomys opimus*, 327

STUART, M. K. and GREEN, T. J. Monoclonal IgM rheumatoid factor-like anti-globulins enhance the inhibitory effects of *Plasmodium falciparum*-specific monoclonal antibodies *in vitro*, 177

TAIT, A. *See* TURNER, C. M. R.

TAKACS, B. *See* RIDLEY, R. G.

TARLTON, A. B. *See* KEYMER, A. E.

THOMPSON, R. C. A. *See* HOBBS, R. P.

THOMPSON, R. C. A. *See* LYMBERY, A. J.

TIU, W. U. *See* MITCHELL, G. F.

TURNER, C. M. R. *See* MCLINTOCK, L. M. L.

TURNER, C. M. R., STERNBERG, J., BUCHANAN, N., SMITH, E., HIDE, G. and TAIT, A. Evidence that the mechanism of gene exchange in *Trypanosoma brucei* involves meiosis and syngamy, 377

UGLEM, G. L. *See* PAPPAS, P. W.

VALTONEN, E. T. *See* ANDERSEN, K. I.

VAN BELKUM, A. *See* PONNUDURAI, T.

VAN EERD, P. *See* PONNUDURAI, T.

VAN EYS, G. J. J. M. *See* STRELKOVA, M. V.

VAN GEMERT, G. J. *See* PONNUDURAI, T.

VANAMAIL, P. *See* DAS, P. K.

VICKERMAN, K. *See* MCLINTOCK, L. M. L.

WAKELIN, D. *See* ELSE, K. J.

WAKELIN, D. *See* LAMMAS, D. A.

WALKER, J. *See* WASTLING, J. M.

WALKER, R. J. *See* HOLDEN-DYE, L.

WALLBANKS, K. R. *See* STILES, J. K.

WASSOM, D. L. *See* ELSE, K. J.

WASTLING, J. M., GERRARD, D., WALKER, J. and CHAPPELL, L. H. Action of cyclosporin A on the tapeworm *Hymenolepis diminuta* in mice, 465

WAFULA, J. M. *See* YOUNG, A. S.

WELLBURN, S. *See* STILES, J. K.

WHARTON, D. A. and MURRAY, D. S. Carbohydrate/lectin interactions between the nematophagous fungus, *Arthrobotrys oligospora*, and the infective juveniles of *Trichostrongylus colubriformis* (Nematoda), 101

WHITFIELD, P. J. *See* MUNRO, M. A.

WILSON, R. A. *See* CONSTANT, S. L.

WOOD, S. M. *See* MITCHELL, G. F.

WORMS, M. J. *See* HARNETT, W.

YOSHINO, T. P. *See* CREWS, A. E.

YOUNG, A. S., MARITIM, A. C., KARIUKI, D. P., STAGG, D. A., WAFULA, J. M., MUTUGI, J. J., CUMMINS, J. M., RICHARDS, A. B. and BURNS, C. Low-dose oral administration of human interferon alpha can control the development of *Theileria parva* infection in cattle, 201

Index of Subjects

Acanthocephalans, analysis of genomic DNA in, 451
Acanthocheilonema viteae, association between circulating antigen and parasite burden in jirds, 435
fructose utilization in, 445
glucose transport in, 249
Accipiter nisus, avian trypanosomes in, 243
Activation mechanisms, of trypanosome VSG genes, 361
Age-frequency distribution, of *Wuchereria bancrofti* infections, 429
Aggregation, relationship of to the prevalence and intensity of infection in *Ascaris lumbricoides*, 139
Anopheles stephensi, bloodmeal digestion in strains of, 193
Anthelmintic action, of avermectins, 265
Antigen, associated with the rhoptry organelles of *Plasmodium falciparum* protects *Saimiri* monkeys, 187
detection of in *Acanthocheilonema viteae*-infected jirds, 435
Arthrobotrys oligospora, capture of *Trichostrongylus colubriformis* by, 93
interactions of with *Trichostrongylus colubriformis*, 101
Ascaris, avermectins block the GABA receptor of, 265
Ascaris lumbricoides, frequency distribution of, 139
Avermectins, blocking of *Ascaris* GABA receptors by, 265
Avian trypanosomes, in *Similium* and sparrowhawks, 243

Biomphalaria glabrata, effect of larval schistosomes on polysaccharide synthesis by, 351
effect of praziquantel on during *Schistosoma mansoni* infection, 211
Bloodmeal digestion, in strains of *Anopheles stephensi*, 193

Carbohydrate/lectin binding, between *Arthrobotrys oligospora* and *Trichostrongylus colubriformis*, 101
Cellular responses, analysis of in mice vaccinated with *Schistosoma mansoni*, 15
Cercariae, u.v. attenuation of for vaccination, 23
Cercarial transmission, the influence of second intermediate host dispersion pattern on, 43
Cestodes, infracommunity structure of in freshwater fishes, 257
Coexistence of cestodes in freshwater fishes, 257
Confocal scanning laser microscopy, use of to study the peptidergic nervous system of *Schistosoma mansoni*, 227
Coproantigen detection, use of in the immunodiagnosis of taeniasis, 473
Cyclospora talpae, developmental stages of, 345
Cyclosporin A, action of on *Hymenolepis diminuta*, 465
use of as a tool to examine host–parasite relationships, 465
Cysteine proteinases, in *Leishmania amazonensis*, 7
in *Tritrichomonas mobilensis*, 57
Cyst fluid components, of *Taenia crassiceps*, 115
Cysticercosis, passive immunity in, 145

Density-dependent effect, of *Heligmosomoides polygyrus* on mouse survival and reproduction, 73
Developmental stages, of *Cyclospora talpae*, 345
Development, of *Haemonchus contortus*, 309
of *Leishmania major* in sandflies, 337
Differentiation, of *Leishmania amazonensis*, 7
Diphyllobothrium dendriticum, laboratory maintenance of, 153
DNA analysis, of *Pomphorhynchus* strains, 451

East Coast Fever, control of by interferon α, 201
rDNA probes, use of in the study of *Eimeria* spp., 1

Echinococcus granulosus, diversity and differentiation in, 283
rostellar hook morphology of, 273
Echinoparyphium recurvatum, sibling species of, 35
transmission of, 43
Echinostomes, speciation of, 35
Eimeria spp., studies in using rRNA and rDNA probes, 1
virus-like RNA in, 163
Enterochromaffin cells, changes in associated with *Hymenolepis diminuta* infection in male C57 mice, 107
Enzyme inhibitor, production of by *Hymenolepis diminuta*, 455
Eosinophilia, in *Mesocestoides corti*-infected mice, 291
Epidemiological significance, of vector–parasite interactions, 409

Fasciola hepatica, spermatogenesis in, 395
Fecundity, effect of praziquantel on in *Schistosoma mansoni*-infected snails, 211
Filariae, glucose uptake in, 249
Filarial circulating antigen, association of with parasite load, 435
Fish, infracommunity of adult cestodes in, 257
Frequency distribution, of *Ascaris lumbricoides*, 139
of lymphatic filariasis microfilariae in human populations, 417
Fructose utilization, in *Acanthocheilonema viteae*, 445

GABA receptor, blocking of by avermectins, 265
Gene exchange, mechanism of in *Trypanosoma brucei*, 377
Genetic control, of immunity to *Trichuris muris*, 61
Genetic differentiation, in *Echinococcus granulosus*, 283
Genetic diversity, in *Echinococcus granulosus*, 283
Genetic influences, upon eosinophilia and resistance in *Mesocestoides corti*-infected mice, 291
Genomic divergence, in different strains of *Pomphorhynchus laevis*, 451
Glossina palpalis sspp., identification of trypanolysin and trypanoagglutinin in, 369
Glucose transport, in *Acanthocheilonema viteae*, 249
Glycoprotein protease GP63, expression of during development of *Leishmania major*, 337
Growth factor, effect of depletion of on multiplication rates in *Trypanosoma brucei*, 49

Haemolysis, characterization of in *Trichomonas vaginalis*, 171
Haemonchus contortus, population biology of the free-living phase of, 309
Heligmosomoides polygyrus, dynamics of the interaction of with mice, 73
susceptibility of outbred mice to, 69
histocompatibility locus, effect of on resistance to *Trichuris muris* in mice, 61
Host dispersion patterns, influence of on cercarial transmission, 43
Host-specificity, of sibling species of *Echinoparyphium recurvatum*, 35
Hymenolepis diminuta, effect of cyclosporin A on, 465
intestinal responses to in male C57 mice, 107
production of a proteinase inhibitor by, 455

Immunogenetic correlates, of susceptibility to *Heligmosomoides polygyrus* in outbred mice, 69
Immunoglobulins, on the surface of *Taenia crassiceps*, 127

Infracommunity structure, of adult cestodes in freshwater fishes, 257
Inhibition, of mitochondrial protein synthesis in *Theileria parva*-infected lymphocytes, 387
of the growth of *Plasmodium falciparum in vitro*, 321
Inhibitor of proteinases, production of by *Hymenolepis diminuta*, 455
Interferon α, treatment of *Theileria parva* by, 201
Intrategumental pH, regulation of in *Schistosoma mansoni*, 219
Isoenzyme analysis, use of for studying genetic exchange in trypanosomes, 377
use of in the identification of a new species of *Leishmania*, 327

Leishmania amazonensis, intracellular differentiation of, 7
Leishmania major, development of in sandflies, 337
Leishmania turanica, a new species from the great gerbil, 327
Leucine-methyl ester, susceptibility of *Leishmania amazonensis* to, 7
Life-cycle, of *Cyclospora talpae*, 345
routine laboratory maintenance of in *Diphyllobothrium dendriticum*, 153
Lipophosphoglycan, expression of during development of *Leishmania major*, 337
Locomotion, of *Nippostrongylus brasiliensis*, 301
Lymphatic filariasis, frequency distribution of in human populations, 417
Lymphocyte phenotypes, in mice vaccinated with *Schistosoma mansoni*, 15

Maintenance, of the life-cycle of *Diphyllobothrium dendriticum*, 153
Malaria, role of IgM rheumatoid factor-like anti-globulins in, 177
Megasomes, presence of in *Leishmania amazonensis*, 7
Membrane potential, measurement of in *Schistosoma mansoni*, 219
Mesocestoides corti, eosinophilia and resistance to in mice, 291
Metabolism, of fructose in *Acanthocheilonema viteae*, 445
Microfilarial infections, frequency distribution of, 417
Mitochondrial protein synthesis, inhibition of in *Theileria parva*-infected lymphocytes, 387
Model, of mouse–nematode population dynamics, 73
Molecular characterization, of the surface and cyst fluid components of *Taenia crassiceps*, 115
Molecular mimicry, in *Taenia crassiceps*, 127
Morphology, changes in, in the intestine of *Hymenolepis diminuta*-infected C57 mice, 107
of *Echinococcus granulosus* rostella hook, 273
Mortality, of *Haemonchus contortus*, 309
Mucus, role of in the immune rejection of nematodes, 301
Multiplication, control of in *Trypanosoma brucei*, 49

Nematophagous fungi, interactions of with trichostrongyle nematodes, 101
trapping of *Trichostrongylus colubriformis* by, 93
Nervous system, a microscopical study of in *Schistosoma mansoni*, 227
Neuroendocrine system, possible involvement of in rejection of murine cestodes, 107
New species, *Leishmania turanica* from the great gerbil, 327
Nippostrongylus brasiliensis, locomotion of, 301
Nuclear DNA characteristics, use of in the identification of a new species of *Leishmania*, 327

Outbred mice, susceptibility of to *Heligmosomoides polygyrus*, 69
Oxytetracycline, inhibition of mitochondria by in *Theileria parva*-infected lymphocytes, 387

Passive immunity, in cysticercosis, 145
Peptidergic nervous system, of *Schistosoma mansoni*, 227
Plasmodium falciparum, a protective antigen from, 187
bloodmeal digestion by strains of *Anopheles stephensi* of differing susceptibility to, 193
IgM anti-globulins during infections of in humans, 177
inhibition of *in vitro* growth of, 321
Plasmodium vivax sporozoites, large-scale production of, 317
Polysaccharide synthesis, effect of larval schistosomes on, 351
Pomphorhynchus laevis, DNA analysis in different strains of, 451
Population biology, of the free-living phase of *Haemonchus contortus*, 309
Population dynamics, in echinococcosis and cysticercosis, 145
of a mouse–nematode interaction, 73
Praziquantel, treatment of *Schistosoma mansoni*-infected *Biomphalaria glabrata* with, 211
Prevalence, relationship of with mean intensity of *Ascaris lumbricoides* infection, 139
Protection, of *Saimiri* monkeys by a rhoptry antigen of *Plasmodium falciparum*, 187
Proteolytic activity, in *Tritrichomonas mobilensis*, 57
Proteinase inhibitor, production of by *Hymenolepis diminuta*, 455
Protein synthesis, comparison of the effects of glucose and fructose on in *Acanthocheilonema viteae*, 445

Resistance, of mice, to *Mesocestoides corti*, 291
to *Trichuris muris*, effect of the major histocompatibility locus on, 61
Rheumatoid factor, elevated levels of in malaria patients, 177
Rhombomys opimus, isolation of a new species of *Leishmania* from, 327
Rhoptry antigen, of *Plasmodium falciparum*, is protective in *Saimiri* monkeys, 187
RNA, in *Eimeria* spp. is virus-like, 163
rRNA probes, use of in the study of *Eimeria* spp., 1
Rostellar hook, morphology of in *Echinococcus granulosus*, 273

Schistosoma japonicum, sex ratio of worms in infections of, 27
u.v. attenuation of the cercariae of, 23
Schistosoma mansoni, effect of the larvae of on polysaccharide synthesis, 351
lymphocytes in mice vaccinated with, 15
regulation of intrategumental pH in, 219
sex ratio of worms in infections of, 27
the peptidergic nervous system of the larvae of, 227
treatment of infections of in snails, 211
u.v. attenuation of the cercariae of, 23
Schistosome infections, sex ratio of worms in, 27
Serodeme analysis, of *Trypanosoma congolense*, 235
Serum, inhibitory effects of on growth of *Plasmodium falciparum in vitro*, 321
Sex distribution, in infections of *Wuchereria bancrofti*, 429
Sex ratio, of worms in schistosome infections, 27
Simulium, avian trypanosomes in, 243
Sparrowhawks, avian trypanosomes in, 243
Spermatogenesis, in *Fasciola hepatica*, 395
Spermatozoon, ultrastructure of from *Fasciola hepatica*, 395
Sporocysts, effect of on the reproductive activity of *Biomphalaria glabrata*, 351
Sporozoites, large-scale production of from *Plasmodium vivax*, 317
Statistical model, derivation of for microfilarial distribution in humans, 417
Strain recognition, of *Echinococcus granulosus*, 273
Surface components, of *Taenia crassiceps*, 115
Surface immunoglobulins, of *Taenia crassiceps*, parasite- or host-derived, 127
Susceptibility, of outbred mice to infection with *Heligmosomoides polygyrus*, 69
Sympatric sibling species, in *Echinoparyphium recurvatum*, 35

Taeniasis, immunodiagnosis of by coproantigen detection, 473
Taenia crassiceps immunoglobulins, parasite- or host-derived?, 127
Taenia crassiceps, molecular characterization of the surface and cyst fluid components of, 115
Taenia hydatigena, regulation of by passive immunity, 145
Taenia ovis, regulation of by passive immunity, 145
Taenia saginata, immunodiagnosis of by coproantigen detection, 473
Taenia solium, immunodiagnosis of by coproantigen detection, 473
Theileria parva, treatment of with interferon α, 201
Theileria parva-infected lymphocytes, mitochondrial inhibition in, 387
Therapy, of East Coast Fever, with interferon α, 201
Transmission, of the cercariae of *Echinoparyphium recurvatum*, 43
Trichomonas vaginalis, haemolytic activity of, 171
Trichostrongylus colubriformis, capture and penetration processes of, by *Arthrobotrys oligospora*, 93
interaction of with *Arthrobotrys oligospora*, 101
Trichuris muris, genetic control of immunity to, 61
Tritrichomonas mobilensis, proteolytic activity in, 57
Truncated negative binomial, application of to microfilarial frequency distributions, 429
Trypanoagglutinin, in *Glossina palpalis* sspp., 369
Trypanolysin, in *Glossina palpalis* sspp., 369
Trypanosoma brucei, activation of variant surface glycoprotein genes of, 361
comparison of multiplication rates in primary and challenge infections of, 49
mechanism of gene exchange in, 377
Trypanosoma congolense, characterization of the serodemes of, 235
Trypanosome multiplication, control of, 49
Tumour necrosis factor, role of in inhibition of growth of *Plasmodium falciparum*, 321

Ultrastructural studies, of the capture and penetration of *Trichostrongylus colubriformis* by *Arthrobotrys oligospora*, 93
Ultrastructure, of the gametogonic and merogonic stages of *Cyclospora talpae*, 345
of the mature spermatozoon of *Fasciola hepatica*, 395

Vaccination, of mice with *Schistosoma mansoni*, 15
of mice with u.v.-attenuated cercariae, 23
Variable antigen types, in stocks of *Trypanosoma congolense* from Zambia, 235
Variant surface glycoprotein genes, activation of in *Trypanosoma brucei*, 361
Vectorial capacity, problems associated with the estimation of, 409
Vector–parasite interactions, epidemiological significance of, 409
Virus-like RNA, in *Eimeria* spp., 163

Wuchereria bancrofti, frequency distributions of in human populations, 417, 429